

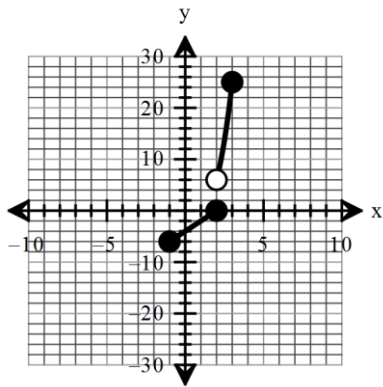
4.4 Piecewise Functions (key, odds)

- 1a. -5
1b. 1
1c. 21
3a. 100
3b. 100
3c. 131

$$11. \quad f(x) = \begin{cases} x & \text{if } -1 \leq x \leq 0, \\ 1 & \text{if } 0 < x \leq 2 \end{cases}$$

13. $x = 27$
15. $x = 9, x = -7$

5.

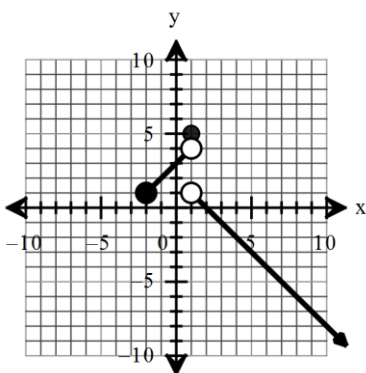


- 5a. -4
5b. -2
5c. 0
5d. 25

7a. domain: $[-2, \infty)$

7b. x-intercept: (2, 0), y-intercept: (0, 3)

7c.

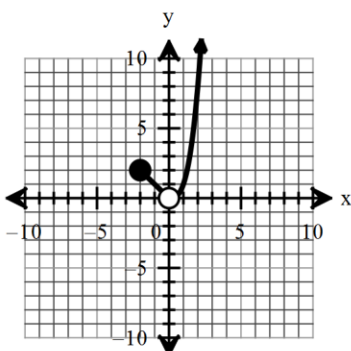


7d. range: $(-\infty, 4) \cup [5]$

9a. domain: $[-2, 0) \cup (0, \infty)$

9b. x-intercept: none, y-intercept: none

9c.



9d. range: $(0, \infty)$